



Half-Cell SERIES

# HTM270~290PH-60

Half-Cell Polycrystalline Silicon PV Modules



### HIGH OUTPUT POWER

Output power is higher than the same type of conventional polycrystalline modules



### ANTI-PID CHARACTERISTICS

Ensure large-scale production of half-cell polycrystalline modules pass PID test



### HOT-SPOT EFFECT

Excellent hot-spot immunity, can effectively avoid the power loss caused by shadow coverage, significantly extend life span



### LOAD CAPACITY

Certified to withstand: wind load(2400 Pascal)and snow load(5400 Pascal)

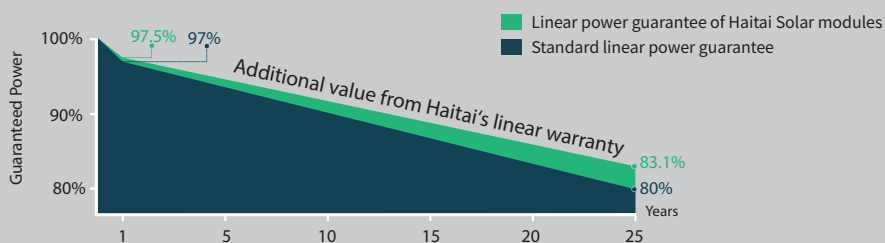


### HARSH ENVIRONMENT ADAPTATION

High salt mist and ammonia resistance certified by TUV

## LINEAR PERFORMANCE WARRANTY

12-year product warranty / 25-year linear power warranty



## Mechanical Data

Cell Type	156.75×78.375mm Poly
Cell Orientation	120(6×20)
Module Dimensions	1675×992×35mm
Weight	19.0kg
Glass	3.2mm high transmittance, reinforced glass
Backsheet	Anti-aging film
Frame Material	Anodized aluminum alloy
Junction Box	Protection class IP68
Cable	4.0 mm <sup>2</sup> positive pole: 300 mm negative pole: 400 mm wire length can be customized
Connector	MC4 compatible connector

# HTM270~290PH-60

## Half-Cell Polycrystalline Silicon PV Modules

## Electrical Data (STC)

Maximum Power (Pmax/W)	270	275	280	285	290
Open Circuit Voltage (Voc/V)	38.18	38.54	38.90	39.26	39.68
Short Circuit Current (Isc/A)	9.08	9.15	9.23	9.31	9.39
Voltage at Maximum Power (Vmp/V)	31.47	31.83	32.19	32.54	32.88
Current at Maximum Power (Imp/A)	8.58	8.64	8.70	8.76	8.82
Module Efficiency (%)	16.25	16.55	16.85	17.15	17.45

## Electrical Data (NMOT)

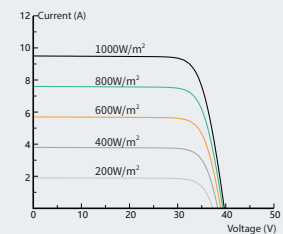
Maximum Power (Pmax/W)	200	203	207	211	215
Open Circuit Voltage (Voc/V)	36.23	36.50	36.96	37.42	37.88
Short Circuit Current (Isc/A)	7.23	7.28	7.33	7.38	7.43
Voltage at Maximum Power (Vmp/V)	29.68	29.86	30.18	30.50	30.81
Current at Maximum Power (Imp/A)	6.74	6.80	6.86	6.92	6.98

STC (Standard Testing Conditions): Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, AM1.5

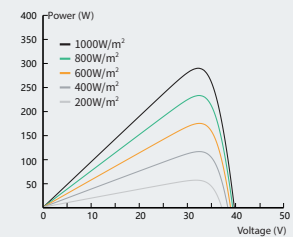
NMOT (Nominal Module Operating Temperature): Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C, AM1.5, Wind Speed 1m/s.

## I-V Curve

Current-Voltage Curve(290W)



Power-Voltage Curve(290W)



## Temperature Coefficients

Temperature Coefficient (Pm)	-0.370%/°C
Temperature Coefficient (Voc)	-0.290%/°C
Temperature Coefficient (Isc)	0.050%/°C

## Operating Parameters

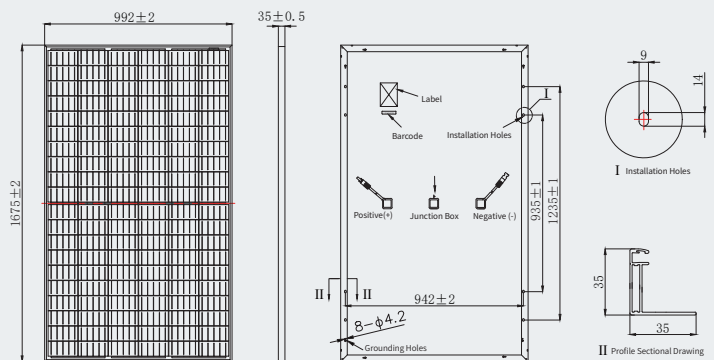
Maximum System Voltage	1000/1500V
Operating Temperature	-40°C ~+85°C
NMOT (Nominal Module Operating Temperature)	41±3°C

## Packaging

Modules Per Pallet: 31+31pcs/31+31+4 pcs

Modules Per 40'HQ Container: 806pcs/858 pcs

## Module Dimensions (mm)



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\*Due to continuous innovation, R & D and product improvement, Haitai Solar has the right to adjust the specs on this datasheet at any time without prior notice.